

## Mission Scientist Report for Thursday, 30 May 2013

Submitted by tjang on Thu, 05/30/2013 - 10:19

Date:

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Discussion:

Yesterday was another successful operations day, with a major MCS passing through the entirety of the IFloodS domain. NPOL performed multiple hours of dedicated PPI sector scanning of the Upper Cedar and Turkey river basins, high-time-resolution rain mapping, and value-added rain mapping with a single RHI over the disdrometer radial. D3R supported these efforts when precipitation was in its domain, concentrating on PPI sweeps coupled with a single RHI over the disdrometers. D3R experienced full attenuation of signal when the main convective line passed over the radar site, and NPOL completed a successful wind test when the main gust front passed over the site, with NPOL experiencing no scanning problems despite peak gusts exceeding 40 mph.

XPOLs operated as well during the event, with some outages due to commercial power loss for XPOL-4 and XPOL-5. XPOL staff will post the specific outage times on their instrument reports. Yesterday should be an excellent case for XPOLs 2 and 4 based on the behavior of the precipitation.

Disdrometers and other surface instruments also operated during the event, with only SN25 experiencing some technical issues at times. Yesterday should be an especially good event for SN37, as NPOL tracked multiple overpasses at that site of deep vertical cores (~15-km tops) containing hail aloft melting to big drops at the surface.

NPOL is down for maintenance and testing this morning, but is available for scanning later. Minor concerns about a gear noise in the elevation motors, and data loss due to strict datafiltering, are being looked into today. XPOL-5 still cannot be remotely monitored. The overall IFloodS network is essentially green with another busy day of operations expected.

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